

Table 1-1

Groundwater Standards for Inorganic Compounds

2002 BNL Groundwater Status Report

CHEMICAL CONSTITUENT	CAS #	NYSDEC GROUNDWATER QUALITY STANDARDS AND GUIDANCE VALUES (a) µg/L	FEDERAL DRINKING WATER STANDARDS (b) µg/L
Inorganics			
Aluminum	7429-90-5	-	200 (d)
Antimony	7440-36-0	3	6
Arsenic	7440-38-2	25	10*
Barium	7440-39-3	1000	2000
Beryllium	7440-41-7	3	4
Cadmium	7440-43-9	5	5
Calcium	7440-70-2	-	-
Chromium	7440-47-3	50	100
Cobalt	7440-48-4	-	-
Copper	7440-50-8	200	1300
Cyanide	57-12-5	200	200
Iron	7439-89-6	300	300 (d)
Lead	7439-92-1	25	15
Magnesium	7439-95-4	35000	-
Manganese	7439-96-5	300	50 (d)
Mercury	7439-97-6	0.7	2
Nickel	7440-02-0	100	100
Potassium	7440-09-7	-	-
Selenium	7782-49-2	10	50
Silver	7440-22-4	50	100
Sodium	7440-23-5	20000	-
Thallium	7440-28-0	0.5	2
Vanadium	7440-62-2	-	-
Zinc	7440-66-6	2000	5000 (d)

Notes:

- No standard available
- * The USEPA has revised the arsenic MCL from 50 µg/L to 10 µg/L. However, this change did not come into effect until February 22, 2002.
- (a) NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
- (b) USEPA February 1996, Drinking Water Regulations and Health Advisories. Note that the information under MCL was converted from mg/l to µg/L in order to maintain uniform units for this table.
- (c) The chemical screening concentration was selected as the more stringent of the state and federal standards.
- (d) Listed standard represents a secondary MCL, which has been developed to control the aesthetic quality of drinking water only.

NYSDEC = New York State Department of Environmental Conservation
 µg/l = micrograms per liter (ppb)
 mg/l = milligrams per liter (ppm)
 MCL = Maximum Contaminant Level
 USEPA = United States Environmental Protection Agency